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Siemens Corporation  
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EXAMINER

WOO, ISAAC M

ART UNIT PAPER NUMBER

2166

DATE MAILED: 04/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/014,146

Applicant(s)

KAPPELL ET AL.

Examiner

Isaac M. Woo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 January 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

### DETAILED ACTION

1. This action is in response to Applicant's Amendments, filed on January 20, 2006 have been considered but are deemed moot in view of new ground of rejections below.
2. Claims 1, 4, 7, 11 and 15 are amended. Claims 1-17 are pending.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-3 and 7-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banning et al (U.S. Patent No. 5,721,901, hereinafter, "Banning") in view of Lowe et al (U.S. Patent No. 6,539,082, hereinafter, "Lowe") further in view of Goldberg et al (U.S. Patent No. 6,571,232, hereinafter, "Goldberg").

With respect to claim 1, Banning discloses, graphical user interface (fig. 2, col. 6, lines 4-26) coupled to provide one or more tables (210, 230, fig. 2, col. 6, lines 4-26) of user selectable query parameters (for instance, SALARY, 210, fig. 2) for accessing call

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information from the call information database in a text form (after selection parameters form 210, fig. 2, query database with OK button), the query parameters defining aliases of search criteria (210, for instance, SALARY is aliases to selection query criteria); and wherein the query engine is adapted to translate the query parameters into a database-readable form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41, the query by user via visual GUI (fig.2) is translated to SQL from). Banning does not explicitly disclose, call information database for storing call information, query engine operably coupled to the call information database. However, Lowe discloses, "Associated with each SSP (9) is a switch side processor (25) that contains a local call record database (CRDB) (27) and is connected via a C7 link (29) to the SCP (15), the C7 protocol being part of the International standard SS7 signalling protocol. Connected to each of the switch side processors (25) is a central database server (31), in which is provided a central database (CDB) (33) for storing information from all the local call records databases (27). Connected to the central database server (31) is an intelligent interface in an operator terminal (35) to enable an operator to obtain billing information from the central database (33)", see (33, central database, fig. 4, stores call information, col. 4, lines 43-54, col. 5, lines 6-36). And Lowe discloses, "In order to enable an operator to gain access to the information in the central database server (31), instructions are entered at the operator terminal (35) and then interpreted by an interface agent in the intelligent interface. The interface agent then constructs a query for the central database (33). When such a query is generated, the interface agent sends out a search mobile agent (SMA) (41) that can move between the operator interface (35) and the

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central database server (31) and search the central database (33) for billing information for the customer in question", see (col.5, lines 22-36). This teaches that interface provides query on call information database. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning by incorporating call information database for storing call information, query engine operably coupled to the call information database with the system of Lowe. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a modification because that would provide Lowe's system the enhanced capability of retrieving call information in database management system. Neither Banning nor Lowe explicitly discloses graphical user interface is configured to display the database readable form. However, Goldberg discloses, "The metadata is then displayed as part of a graphic user interface which is used to construct the SQL query implemented by the query object" (col. 3, lines 33-36), and "Selection of the "Add Query" option brings up the screen shown in FIG. 8. The Add Query screen 800 contains a text field 802 Which allows entry of a query name and a text field 804 which allows entry of the SQL query text" (fig. 8, col. 37, lines 51-55). This teaches that the graphical user interface configured to display SQL (database readable form). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning and Lowe by incorporating graphical user interface is configured to display the database readable form with the system of Goldberg in order to provide user interaction for querying the database system.

With respect to claim 2, Banning discloses, database-readable form comprising a Structured Query Language (SQL) form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 3, Banning discloses, results of a query are provided to the graphical user interface in a text-readable form, see (col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 7, Banning discloses, graphical user interface (fig. 2, col. 6, lines 4-26) coupled to provide one or more tables (210, 230, fig. 2, col. 6, lines 4-26) of user selectable query parameters (for instance, SALARY, 210, fig. 2) for accessing call information from the call information database in a text form (after selection parameters form 210, fig. 2, query database with OK button), the query parameters defining aliases of search criteria (210, for instance, SALARY is aliases to selection query criteria); and wherein the query engine is adapted to translate the query parameters into a database-readable form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41, the query by user via visual GUI (fig.2) is translated to SQL from). Banning does not explicitly discloses, call information database for storing call information, query engine operably coupled to the call information database. However, Lowe discloses, "Associated with each SSP (9) is a switch side processor (25) that contains a local call record database (CRDB) (27) and is connected via a C7 link (29) to the SCP (15), the C7 protocol being part of the International standard SS7 signalling protocol. Connected to each of the

switch side processors (25) is a central database server (31), in which is provided a central database (CDB) (33) for storing information from all the local call records databases (27). Connected to the central database server (31) is an intelligent interface in an operator terminal (35) to enable an operator to obtain billing information from the central database (33)", see (33, central database, fig. 4, stores call information, col. 4, lines 43-54, col. 5, lines 6-36). And Lowe discloses, "In order to enable an operator to gain access to the information in the central database server (31), instructions are entered at the operator terminal (35) and then interpreted by an interface agent in the intelligent interface. The interface agent then constructs a query for the central database (33). When such a query is generated, the interface agent sends out a search mobile agent (SMA) (41) that can move between the operator interface (35) and the central database server (31) and search the central database (33) for billing information for the customer in question", see (col.5, lines 22-36). This teaches that interface provides query on call information database. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning by incorporating call information database for storing call information, query engine operably coupled to the call information database with the system of Lowe. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a modification because that would provide Lowe's system the enhanced capability of retrieving call information in database management system. Neither Banning nor Lowe explicitly discloses graphical user interface is configured to display the database readable form. However, Goldberg discloses, "The metadata is

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then displayed as part of a graphic user interface which is used to construct the SQL query implemented by the query object" (col. 3, lines 33-36), and "Selection of the "Add Query" option brings up the screen shown in FIG. 8. The Add Query screen 800 contains a text field 802 Which allows entry of a query name and a text field 804 which allows entry of the SQL query text" (fig. 8, col. 37, lines 51-55). This teaches that the graphical user interface configured to display SQL (database readable form). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning and Lowe by incorporating graphical user interface is configured to display the database readable form with the system of Goldberg in order to provide user interaction for querying the database system.

With respect to claim 8, Banning discloses, database-readable form comprising a Structured Query Language (SQL) form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 9, Banning discloses, results of a query are provided to the graphical user interface in a text-readable form, see (col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 10, Banning discloses, first screen for selecting fields for searching; second screen for entering search criteria for the fields, and third screen for displaying results of the searching, see (col. 6, lines 4-26).



With respect to claim 11, Banning discloses, graphical user interface (fig. 2, col. 6, lines 4-26) coupled to provide one or more tables (210, 230, fig. 2, col. 6, lines 4-26) of user selectable query parameters (for instance, SALARY, 210, fig. 2) for accessing call information from the call information database in a text form (after selection parameters form 210, fig. 2, query database with OK button), the query parameters defining aliases of search criteria (210, for instance, SALARY is aliases to selection query criteria); and wherein the query engine is adapted to translate the query parameters into a database-readable form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41, the query by user via visual GUI (fig.2) is translated to SQL from). Banning does not explicitly discloses, call information database for storing call information, query engine operably coupled to the call information database. However, Lowe discloses, "Associated with each SSP (9) is a switch side processor (25) that contains a local call record database (CRDB) (27) and is connected via a C7 link (29) to the SCP (15), the C7 protocol being part of the International standard SS7 signalling protocol. Connected to each of the switch side processors (25) is a central database server (31), in which is provided a central database (CDB) (33) for storing information from all the local call records databases (27). Connected to the central database server (31) is an intelligent interface in an operator terminal (35) to enable an operator to obtain billing information from the central database (33)", see (33, central database, fig. 4, stores call information, col. 4, lines 43-54, col. 5, lines 6-36). And Lowe discloses, "In order to enable an operator to gain access to the information in the central database

server (31), instructions are entered at the operator terminal (35) and then interpreted by an interface agent in the intelligent interface. The interface agent then constructs a query for the central database (33). When such a query is generated, the interface agent sends out a search mobile agent (SMA) (41) that can move between the operator interface (35) and the central database server (31) and search the central database (33) for billing information for the customer in question", see (col.5, lines 22-36). This teaches that interface provides query on call information database. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning by incorporating call information database for storing call information, query engine operably coupled to the call information database with the system of Lowe. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a modification because that would provide Lowe's system the enhanced capability of retrieving call information in database management system. Neither Banning nor Lowe explicitly discloses graphical user interface is configured to display the database readable form. However, Goldberg discloses, "The metadata is then displayed as part of a graphic user interface which is used to construct the SQL query implemented by the query object" (col. 3, lines 33-36), and "Selection of the "Add Query" option brings up the screen shown in FIG. 8. The Add Query screen 800 contains a text field 802 Which allows entry of a query name and a text field 804 which allows entry of the SQL query text" (fig. 8, col. 37, lines 51-55). This teaches that the graphical user interface configured to display SQL (database readable form). Therefore, it would have been obvious to a person having ordinary skill

in the art at the time of the invention was made to modify Banning and Lowe by incorporating graphical user interface is configured to display the database readable form with the system of Goldberg in order to provide user interaction for querying the database system.

With respect to claim 12, Banning discloses, database-readable form comprising a Structured Query Language (SQL) form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 13, Banning discloses, results of a query are provided to the graphical user interface in a text-readable form, see (col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 14, Banning discloses, first screen for selecting fields for searching; second screen for entering search criteria for the fields, and third screen for displaying results of the searching, see (col. 6, lines 4-26).

With respect to claim 15, Banning discloses, graphical user interface (fig. 2, col. 6, lines 4-26) coupled to provide one or more tables (210, 230, fig. 2, col. 6, lines 4-26) of user selectable query parameters (for instance, SALARY, 210, fig. 2) for accessing call information from the call information database in a text form (after selection parameters form 210, fig. 2, query database with OK button), the query parameters

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defining aliases of search criteria (210, for instance, SALARY is aliases to selection query criteria); and wherein the query engine is adapted to translate the query parameters into a database-readable form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41, the query by user via visual GUI (fig.2) is translated to SQL from).

Banning does not explicitly disclose, call information database for storing call information, query engine operably coupled to the call information database. However, Lowe discloses, "Associated with each SSP (9) is a switch side processor (25) that contains a local call record database (CRDB) (27) and is connected via a C7 link (29) to the SCP (15), the C7 protocol being part of the International standard SS7 signalling protocol. Connected to each of the switch side processors (25) is a central database server (31), in which is provided a central database (CDB) (33) for storing information from all the local call records databases (27). Connected to the central database server (31) is an intelligent interface in an operator terminal (35) to enable an operator to obtain billing information from the central database (33)", see (33, central database, fig. 4, stores call information, col. 4, lines 43-54, col. 5, lines 6-36). And Lowe discloses, "In order to enable an operator to gain access to the information in the central database server (31), instructions are entered at the operator terminal (35) and then interpreted by an interface agent in the intelligent interface. The interface agent then constructs a query for the central database (33). When such a query is generated, the interface agent sends out a search mobile agent (SMA) (41) that can move between the operator interface (35) and the central database server (31) and search the central database (33) for billing information for the customer in question", see (col.5, lines 22-36). This

teaches that interface provides query on call information database. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning by incorporating call information database for storing call information, query engine operably coupled to the call information database with the system of Lowe. Thus, one having ordinary skill in the art at the time the invention was made would have been motivated to use such a modification because that would provide Lowe's system the enhanced capability of retrieving call information in database management system. Neither Banning nor Lowe explicitly discloses graphical user interface is configured to display the database readable form. However, Goldberg discloses, "The metadata is then displayed as part of a graphic user interface which is used to construct the SQL query implemented by the query object" (col. 3, lines 33-36), and "Selection of the "Add Query" option brings up the screen shown in FIG. 8. The Add Query screen 800 contains a text field 802 Which allows entry of a query name and a text field 804 which allows entry of the SQL query text" (fig. 8, col. 37, lines 51-55). This teaches that the graphical user interface configured to display SQL (database readable form). Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning and Lowe by incorporating graphical user interface is configured to display the database readable form with the system of Goldberg in order to provide user interaction for querying the database system.

With respect to claim 16, Banning discloses, database-readable form comprising a Structured Query Language (SQL) form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 17, Banning discloses, results of a query are provided to the graphical user interface in a text-readable form, see (col. 3, lines 57-67 to col. 4, lines 1-41).

5. Claims 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banning et al (U.S. Patent No. 5,721,901, hereinafter, "Banning) in view of Lowe et al (U.S. Patent No. 6,539,082, hereinafter, "Lowe").

With respect to claim 4, Banning discloses, the query parameters defining aliases of search criteria (210, for instance, SALARY is aliases to selection query criteria), the inputting including selecting from one or more tables of query parameters (for instance, SALARY, 210, fig. 2); translating the database text query information into a database-readable form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41, the query by user via visual GUI (fig.2) is translated to SQL from); returning result of the database-readable query to the graphical user interface for display (disclosed system of Banning is data retrieval using GUI input system). Banning does not explicitly discloses, inputting call center database text query information from a call information database into graphical user interface. However, Lowe discloses, "Associated with each SSP (9) is a

switch side processor (25) that contains a local call record database (CRDB) (27) and is connected via a C7 link (29) to the SCP (15), the C7 protocol being part of the International standard SS7 signalling protocol. Connected to each of the switch side processors (25) is a central database server (31), in which is provided a central database (CDB) (33) for storing information from all the local call records databases (27). Connected to the central database server (31) is an intelligent interface in an operator terminal (35) to enable an operator to obtain billing information from the central database (33)", see (33, central database, fig. 4, stores call information, col. 4, lines 43-54, col. 5, lines 6-36). And Lowe discloses, "In order to enable an operator to gain access to the information in the central database server (31), instructions are entered at the operator terminal (35) and then interpreted by an interface agent in the intelligent interface. The interface agent then constructs a query for the central database (33). When such a query is generated, the interface agent sends out a search mobile agent (SMA) (41) that can move between the operator interface (35) and the central database server (31) and search the central database (33) for billing information for the customer in question", see (col.5, lines 22-36). This teaches that interface provides inputting query on call information database. Therefore, it would have been obvious to a person having ordinary skill in the art at the time of the invention was made to modify Banning by incorporating inputting call center database text query information from a call information database into graphical user interface with the system of Lowe. Thus, one having ordinary skill in the art at the time the invention was made would have been

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motivated to use such a modification because that would provide Lowe's system the enhanced capability of retrieving call information in database management system.

With respect to claim 5, Banning discloses, database-readable form comprising a Structured Query Language (SQL) form, see (col. 1, lines 29-57, col. 3, lines 57-67 to col. 4, lines 1-41).

With respect to claim 6, Banning discloses, selecting one or more fields to view from a first graphical user interface window; selecting predetermined criteria to apply to the fields using a second graphical and user interface window, see (210, fig. 2, for instance, SALARY is aliases to selection query criteria).

### ***Conclusion***

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the



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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Isaac M. Woo whose telephone number is (571) 272-4043. The examiner can normally be reached on 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain T. Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

IW  
March 29, 2006

  
JEAN M. CORIO  
PRIMARY EXAMINER